

CLAIMS

What is claimed is:

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1. A personal care product comprising a biodegradable film, wherein the biodegradable film comprises:
a biodegradable polymer; and
a water soluble polymer, wherein the film has a water
10 vapor transmission rate of greater than about 2500 g/m²/24hrs.

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2. The personal care product of Claim 1, wherein the biodegradable film has a water vapor transmission rate of greater than about 3000 g/m²/24hrs.

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3. The personal care product of Claim 1, wherein the biodegradable film has a water vapor transmission rate of greater than about 3500 g/m²/24hrs.

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4. The personal care product of Claim 1, wherein the biodegradable polymer is an aliphatic polyester.

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5. The personal care product of Claim 1, wherein the biodegradable polymer is selected from the group consisting of polycaprolactone, polybutylene succinate, poly(butylene succinate-adipate), polylactic acid, a terpolymer of terephthalic acid, adipic acid; and 1,4-butanediol, and copolymers and mixtures thereof.

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6. The personal care product of Claim 1, wherein the water soluble polymer is selected from the group consisting of polyethylene oxide, polyethylene glycol, polyvinyl alcohol, and copolymers and mixtures thereof.

7. The personal care product of Claim 1, wherein the water soluble polymer is polyethylene oxide, polyethylene glycol, or a copolymer thereof.

8. The personal care product of Claim 1, wherein the biodegradable film has an elongation at break of greater than about 100%.

5 9. The personal care product of Claim 1, wherein the biodegradable film has an elongation at break of greater than about 200%.

10 10. The personal care product of Claim 1, wherein the biodegradable film includes from about 1% to about 50% water soluble polymer by weight of the film.

15 11. The personal care product of Claim 1, wherein the biodegradable film includes from about 5% to about 30% water soluble polymer by weight of the film.

20 12. The personal care product of Claim 1, wherein the biodegradable film includes from about 50% to about 99% biodegradable polymer by weight of the film.

25 13. The personal care product of Claim 1, wherein the biodegradable film includes from about 70% to about 95% biodegradable polymer by weight of the film.

30 14. The personal care product of Claim 1, wherein the biodegradable film has a thickness of from about 0.01 to about 5 mils.

35 15. The personal care product of Claim 1, wherein the biodegradable film has a thickness of from about 0.01 to about 5 mils.

16. The personal care product of Claim 1, wherein the biodegradable film is laminated to a nonwoven web.

17. The personal care product of Claim 1, wherein the product is a diaper, training pant, feminine pad, panty liner, incontinence product, wound dressing or delivery system.

18. The personal care product of Claim 1, wherein the product is disposable.

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